

**COMPACT OPTICAL TRANSCEIVERS INCLUDING THERMAL
DISTRIBUTING AND ELECTROMAGNETIC SHIELDING SYSTEMS
AND METHODS THEREOF**

ABSTRACT OF THE DISCLOSURE

5 An optical transceiver includes structures that define an electrical connector port for allowing connection of an electrical connector to an optical subassembly of the transceiver, and structures that define a vent surrounding at least portions of the connector port, whereby the vent allows bidirectional passage of air therethrough. Included in the transceiver are structures that define electromagnetic interference shielding and selectively transfer heat of heat generating electronic components by conduction to a transceiver housing. Methods of cooling the transceiver by ventilation and internal heat conduction are present.

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